

Appl. No. 08/713,457
Amdt. Dated August 3, 2004
Reply to Office Action of July 26, 2004

Docket No. IRI03902
Customer No.. 23330

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously amended). A method in a communication system for providing multiple wireless communication services having different bit rates, the method comprising:

- receiving one or more first data streams, each having a first information bit rate;
- receiving one or more second data streams, each having a second information bit rate that is higher than the first information bit rate;
- encoding the one or more first data streams using code division multiple access (CDMA), resulting in one or more spread data streams;
- multiplexing each of the one or more second data streams and the one or more spread data streams, resulting in one or more multiplexed data streams;
- frequency modulating the one or more multiplexed data streams, resulting in a modulated data stream; and
- transmitting the modulated data stream at a first power level, wherein the one or more first data streams and the one or more second data streams have a common transmission bit rate, resulting in differences in link margin for the one or more first data streams and the one or more second data streams.

Claim 2 (original). The method as claimed in claim 1, wherein multiplexing comprises multiplexing at least one of the one or more spread data streams into a same timeslot as at least one of the one or more second data streams, and frequency modulating comprises modulating the at least one of the one or more spread data streams into a different frequency as the at least one of the one or more second data streams.

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Claim 3 (original). The method as claimed in claim 1, wherein multiplexing comprises multiplexing at least one of the one or more spread data streams into a different timeslot as at least one of the one or more second data streams, and frequency modulating comprises modulating the at least one of the one or more spread data streams into a same frequency as the at least one of the one or more second data streams.

Claim 4 (cancelled).

Claim 5 (original). The method as claimed in claim 1, wherein receiving the one or more first data streams comprises receiving one or more paging data streams.

Claim 6 (original). The method as claimed in claim 1, wherein receiving the one or more second data streams comprises receiving one or more voice data streams.

Claim 7 (original). The method as claimed in claim 1, wherein encoding the one or more first data streams comprises encoding multiple streams of the one or more first data streams together within a same frequency band.

Claim 8 (original). The method as claimed in claim 1, wherein encoding the one or more first data streams comprises encoding using a chip rate that results in a higher link margin than a link margin for the one or more second data streams.

Claim 9 (original). The method as claimed in claim 8, wherein the chip rate is determined by a user of the communication system.

Claim 10 (currently amended). A method in a communication system for providing multiple wireless communication services having different bit rates, the method comprising:
receiving a modulated data stream;
frequency demodulating the modulated data stream, resulting in one or more multiplexed data streams;

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demultiplexing the one or more multiplexed data streams, resulting in one or more non-spread data streams and one or more spread data streams, wherein the one or more non-spread data streams have a first bit rate;

decoding the one or more spread data streams out of a same frequency band using code division multiple access (CDMA), resulting in one or more decoded data streams, wherein the one or more decoded data streams have a second bit rate that is lower than the first bit rate; and

processing the one or more non-spread data streams and the one or more decoded data streams[.]; and

the frequency demodulating comprises demodulating at least one of the one or more spread data streams out of a different frequency from at least one of the one or more non-spread data streams, and demultiplexing comprises demultiplexing at least one of the one or more spread data streams out of a same timeslot as at least one of the one or more non-spread data streams.

Cancel claims 11 and 12.

Claim 13 (previously cancelled).

Claim 14 (original). The method as claimed in claim 10, wherein decoding comprises decoding using a chip rate that results in a higher link margin for the one or more decoded data streams than a link margin for the one or more non-spread data streams.

Claim 15 (original). The method as claimed in claim 14, wherein the chip rate is determined by a user of the communication system.

Cancel claims 16-17.

Claim 18 (previously cancelled).

Cancel claims 19-21.